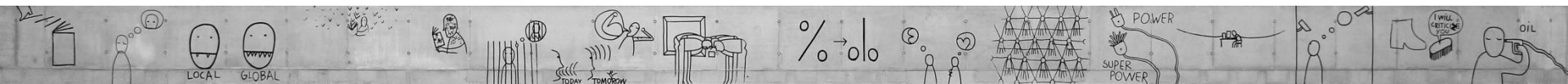


# Vyhledávání a orientace ve vědeckých informacích z pohledu citační analýzy

Mgr. Jakub Szarzec  
Národní technická knihovna

Searching Session 2014  
7. 10. 2014  
Národní technická knihovna



# Úvodem

- Vědecká informace.
- Citační analýza a bibliometrie.
- Zdroje vědeckých informací – databáze a vyhledávače. Základní funkce.
- Příklady.



# Vědecká informace podle TDKIV

- Odborná informace. Výsledek vědeckého poznání.
- Informace, která byla ověřena, verifikována (popř. falzifikována) standardními vědeckými metodami.
- Míru její vědeckosti lze testovat např. scientometrickými metodami.

# Vědecká informace v širším kontextu

- Vědecké publikování.
- Myšlenka a následný výzkum (životní cyklus).
- Články, časopisy, knihy, patenty atd.
- Peer review.
- Nárůst. Obtížná orientace. Publish or Perish!
- Základní výzkum vs. aplikovaný výzkum.
- Oborové odlišnosti.
- Bibliografické databáze a citační rejstříky.  
Plnotextové databáze. Patentové databáze. Šedá literatura.

# Citační analýza

- Zkoumá citovanost dokumentů na základě statických metod.
- Citace vyjadřuje vztah mezi publikacemi.
- Základy položil Eugene Garfield v roce 1955 (metoda citační indexace).
- Pevnou součástí bibliometrie a scientometrie.
- Kvantitativní hodnocení publikační produkce ve VaV.
- Analýza na makro a mikro úrovni (autoři, týmy, instituce, státy).
- Ve scientometrii používána jako jedno z hodnotících kritérií. Společně s peer review.
- Altmetrics a sociální média.

# Vědecká informace a citační analýza

- ↘ Bibliografické informace.
- ↘ Strukturovaná data.
- ↘ Statistická data. Měření publikační činnosti.
- ↘ Bibliografické a citační databáze:
  - Komerční
  - Volně dostupné
- ↘ Analytické nástroje.
- ↘ Co-citation a Co-publication analýza.

# Web of Science

- Placená bibliografická a citační databáze.
- Thomson Reuters
- 1945-2014.
- Eugene Garfield a Institute of Scientific Information v roce 1964 (50 let).
- Citační indexace.
- Obsahuje:
  - Science Citation Index
  - Social Citation Index
  - Art & Humanities Citation Index
- Web of Science Core Collection (1945).
- Součástí je Journal Citation Reports.
- [www.wokinfo.com](http://www.wokinfo.com)

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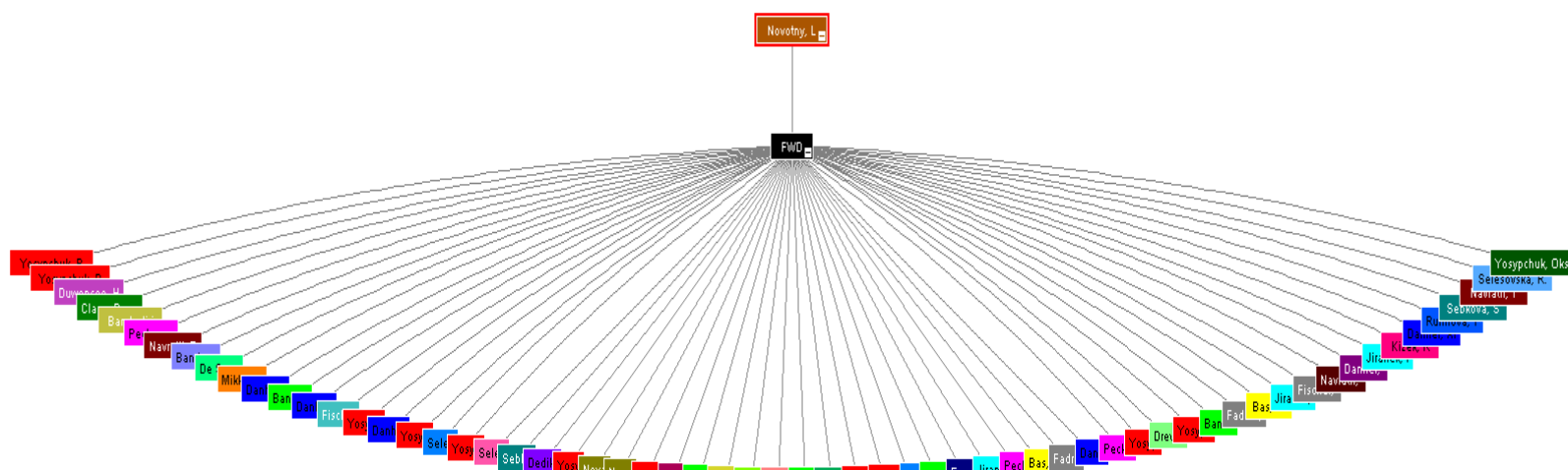
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**A novel selective broad-spectrum anti-DNA virus agent**

E De Clercq, A Holý, I Rosenberg, T Sakuma... - 1986 - nature.com

A new compound has been found, (S)-9-(3-hydroxy-2-phosphonyl-methoxypropyl) adenine ((S)-HPMPA), that has potent and selective activity against a broad spectrum of DNA viruses, including herpes simplex virus (types 1 and 2); varicella zoster virus; thymidine kinase- ...

Počet citací tohoto článku: 760 Související články Všechny verze (počet: 7) Web of Science: 727 Citovat Uložit Další

**Antiviral activity of phosphonylmethoxyalkyl derivatives of purine and pyrimidines**

..., M Baba, R Pauwels, J Balzarini, I Rosenberg, A Holý - Antiviral research, 1987 - Elsevier

Summary Various 3-hydroxy-2-phosphonylmethoxypropyl (HPMP) and 2-phosphonylmethoxyethyl (PME) derivatives of purine [adenine (A), guanine (G), 2, 6-diaminopurine (DAP), 2-monoaminopurine (MAP), hypoxanthine (HX)] and pyrimidine [ ...

Počet citací tohoto článku: 489 Související články Všechny verze (počet: 6) Web of Science: 458 Citovat Uložit Další

**Acyclic nucleoside phosphonates: a key class of antiviral drugs**

E De Clercq, A Holý - Nature Reviews Drug Discovery, 2005 - nature.com

Abstract Almost 20 years after the broad antiviral activity spectrum of the first acyclic nucleoside phosphonates was described, several of these compounds have become important therapies for DNA virus and retrovirus infections. Here, we review the discovery ...

Počet citací tohoto článku: 366 Související články Všechny verze (počet: 7) Web of Science: 259 Citovat Uložit Další

**(S)-9-(2, 3-Dihydroxypropyl) adenine: an aliphatic nucleoside analog with broad-spectrum antiviral activity**

E de Clercq, J Descamps, P de Somer, A HOLÝ - Science, 1978 - sciencemag.org

Abstract (S)-9-(2, 3-Dihydroxypropyl) adenine, a novel nucleoside analog, the sugar moiety of which is replaced by an aliphatic chain, inhibits the replication in vitro of several DNA and RNA viruses, including vaccinia, herpes simplex (types 1 and 2), measles, and vesicular ...

Počet citací tohoto článku: 220 Související články Všechny verze (počet: 9) Web of Science: 243 Citovat Uložit Další

**Synthesis and cytostatic activity of substituted 6-phenylpurine bases and nucleosides: application of the Suzuki-Miyaura cross-coupling reactions of 6-chloropurine ...**

M Hocek, A Holý, I Votruba... - Journal of medicinal ... - 2000 - ACS Publications

The Suzuki-Miyaura reaction of protected 6-chloropurine and 2-amino-6-chloropurine bases and nucleosides with substituted phenylboronic acids led to the corresponding protected 6-(substituted phenyl) purine derivatives 6-9. Their deprotection yielded a series of ...

Počet citací tohoto článku: 190 Související články Všechny verze (počet: 7) Web of Science: 183 Citovat Uložit Další

**Synthesis of 9-(2-phosphonylmethoxyethyl) adenine and related compounds**

A Holý, I Rosenberg - Collection of Czechoslovak chemical ... - 1987 - cccc.uochb.cas.cz

Abstract Diethyl 2-hydroxyethoxymethanephosphonate (VIII) was converted into diethyl 2-halogenoethoxymethanephosphonates IXa and IXb by reaction with triphenylphosphine and tetrachloromethane or tetrabromomethane; analogous reaction of VIII with p- ...

Počet citací tohoto článku: 178 Související články Všechny verze (počet: 2) Web of Science: 189 Citovat Uložit Další

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## Nejlepší publikač

## Publikace

1. Nature

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13. Circulation

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15. Nano Letters

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18. NBER Working

19. Nucleic Acids R

20. Journal of the A

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25. PLoS ONE

Název/autor	Citace	Rok
<a href="#">Large-scale pattern growth of graphene films for stretchable transparent electrodes</a> KS Kim, Y Zhao, H Jang, SY Lee, JM Kim, KS Kim, JH Ahn, P Kim, ... Nature 457 (7230), 706-710	3908	2009
<a href="#">Finding the missing heritability of complex diseases</a> TA Manolio, FS Collins, NJ Cox, DB Goldstein, LA Hindorff, DJ Hunter, ... Nature 461 (7265), 747-753	2955	2009
<a href="#">A map of human genome variation from population-scale sequencing</a> 1000 Genomes Project Consortium Nature 467 (7319), 1061-1073	2886	2010
<a href="#">Genetic variation in IL28B predicts hepatitis C treatment-induced viral clearance</a> D Ge, J Fellay, AJ Thompson, JS Simon, KV Shianna, TJ Urban, ... Nature 461 (7262), 399-401	2373	2009
<a href="#">A human gut microbial gene catalogue established by metagenomic sequencing</a> J Qin, R Li, J Raes, M Arumugam, KS Burgdorf, C Manichanh, T Nielsen, ... Nature 464 (7285), 59-65	2063	2010
<a href="#">A safe operating space for humanity</a> J Rockström, W Steffen, K Noone, Å Persson, FS Chapin, EF Lambin, ... Nature 461 (7263), 472-475	2056	2009
<a href="#">A core gut microbiome in obese and lean twins.</a> PJ Turnbaugh, M Hamady, T Yatsunenko, BL Cantarel, A Duncan, RE Ley, ... Nature 457 (7228), 480-484	1906	2009
<a href="#">An anomalous positron abundance in cosmic rays with energies 1.5–100 GeV</a> O Adriani, GC Barbarino, GA Bazilevskaya, R Bellotti, M Boezio, ... Nature 458 (7238), 607-609	1570	2009
<a href="#">Human DNA methylomes at base resolution show widespread epigenomic differences</a> R Lister, M Pelizzola, RH Downen, RD Hawkins, G Hon, J Tonti-Filippini, ... Nature 462 (7271), 315-322	1564	2009
<a href="#">An integrated encyclopedia of DNA elements in the human genome</a> ENCODE Project Consortium Nature 489 (7414), 57-74	1563	2012
<a href="#">Common polygenic variation contributes to risk of schizophrenia and bipolar disorder</a> SM Purcell, NR Wray, JL Stone, PM Visscher, MC O'Donovan, PF Sullivan, ... Nature 460 (7256), 748-752	1478	2009
<a href="#">Longitudinal unzipping of carbon nanotubes to form graphene nanoribbons</a> DV Kosynkin, AL Higginbotham, A Sinitskii, JR Lomeda, A Dimiev, ... Nature 460 (7256), 748-752	1405	2009

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Cites	Per year	Rank	Authors	Title	Year	Publication	Publisher	Type
<input checked="" type="checkbox"/> h 760	27.14	1	E De Clercq, A Holy...	A novel selective broad-spectrum anti-DNA virus agent	1986		nature.com	
<input checked="" type="checkbox"/> h 489	18.11	2	ED Clercq, T Sakum...	Antiviral activity of phosphonate derivatives of purine and pyrimidines	1987	Antiviral research	Elsevier	
<input checked="" type="checkbox"/> h 450	15.00	3	J Brosius, A Holy	Regulation of ribosomal RNA promoters with a synthetic lac operator	1984	Proceedings of the National ...	National Acad Sciences	
<input checked="" type="checkbox"/> h 366	40.67	4	E De Clercq, A Holy	Acyclic nucleoside phosphonates: a key class of antiviral drugs	2005	Nature Reviews Drug Discov...	nature.com	
<input checked="" type="checkbox"/> h 258	9.92	5	..., M Baba, J Desm...	Phosphonate derivatives of purine, a new class of anti-human immunodeficiency virus agents.	1988	Antimicrobial agents ...	Am Soc Microbiol	
<input checked="" type="checkbox"/> h 244	9.76	7	..., P Herdewijn, I R...	Marked in vivo antiretroviral activity of 9-(2-phosphonate) adenine, a selective anti-human immunode...	1989	Proceedings of the ...	National Acad Sciences	
<input checked="" type="checkbox"/> h 232	11.05	6	J Balzarini, A Holy, ...	Differential antiretroviral and antiretrovirus effects of the (S) and (R) enantiomers of acyclic nucleoside phosph...	1993	Antimicrobial agents ...	Am Soc Microbiol	
<input checked="" type="checkbox"/> h 220	6.11	8	E de Clercq, J Desc...	(S)-9-(2, 3-dihydroxypropyl) adenine: an aliphatic nucleoside analog with broad-spectrum antiviral activity	1978	Science	sciencemag.org	
<input checked="" type="checkbox"/> h 203	7.81	9	..., E De Clercq, I R...	(S)-1-(3-hydroxy-2-phosphonate) cytosine, a potent and selective inhibitor of human cytomegalovirus...	1988	Antimicrobial agents ...	Am Soc Microbiol	
<input checked="" type="checkbox"/> h 190	13.57	10	M Hocke, A Holy, I ...	Synthesis and cytostatic activity of substituted 6-phenylpurine bases and nucleosides: application of the Suzuki-Mi...	2000	Journal of medicinal ...	ACS Publications	
<input checked="" type="checkbox"/> h 178	6.59	11	A Holy, I Rosenberg	Synthesis of 9-(2-phosphonate) adenine and related compounds	1987	Collection of Czechoslovak c...	cccc.uochb.cas.cz	
<input checked="" type="checkbox"/> h 175	15.91	12	A Holy	Phosphonate derivatives of nucleosides	2003	Current pharmaceutical design	ingentaconnect.com	
<input checked="" type="checkbox"/> h 150	10.00	14	A Holy, J Günter, H ...	Structure-antiviral activity relationship in the series of pyrimidine and purine N-[2-(2-phosphonate) ethyl] nu...	1999	Journal of medicinal ...	ACS Publications	
<input checked="" type="checkbox"/> h 142	5.92	13	A Holy, I Votruba, ...	Acyclic nucleoside analogues: synthesis, antiviral activity and inhibitory effects on some cellular and virus-encoded...	1990	Antiviral research	Elsevier	
<input checked="" type="checkbox"/> h 122	4.88	15	E De Clercq, A Holy...	Efficacy of phosphonate derivatives of adenine in experimental herpes simplex virus and vaccinia virus ...	1989	Antimicrobial agents and ...	Am Soc Microbiol	
<input checked="" type="checkbox"/> h 116	5.52	17	..., J Kruijning, L Ber...	Inhibitory effect of 9-(2-phosphonate) adenine (PMEA) on human and duck hepatitis B virus infection	1993	Antiviral research	Elsevier	
<input checked="" type="checkbox"/> h 116	4.30	16	I Votruba, R Bernae...	Intracellular phosphorylation of broad-spectrum anti-DNA virus agent (S)-9-(3-hydroxy-2-phosphonate)cytop...	1987	Molecular ...	ASPET	
<input checked="" type="checkbox"/> h 110	8.46	20	M Hocke, A Holy, I ...	Cytostatic 6-arylpurine nucleosides III. Synthesis and structure-activity relationship study in cytostatic activity of ...	2001	Collection of ...	cccc.uochb.cas.cz	
<input checked="" type="checkbox"/> h 108	9.00	21	A Holy, I Votruba, ...	6-[2-(Phosphonate) alkoxy] pyrimidines with antiviral activity	2002	Journal of medicinal ...	ACS Publications	
<input checked="" type="checkbox"/> h 106	5.89	18	P Kramata, I Votrub...	Different inhibitory potencies of acyclic phosphonate nucleoside analogs toward DNA polymerases alph...	1996	Molecular pharmacology	ASPET	
<input checked="" type="checkbox"/> h 103	11.44	19	KJ Stittelaar, J Neyt...	Antiviral treatment is more effective than smallpox vaccination upon lethal monkeypox virus infection	2005	Nature	nature.com	
<input checked="" type="checkbox"/> h 103	11.44	24	L Naesens, L Lenae...	Antidengue virus activities of several classes of nucleoside and nucleotide analogues	2005	Antimicrobial agents ...	Am Soc Microbiol	
<input checked="" type="checkbox"/> h 99	4.30	22	J Balzarini, A Holy, ...	9-[(2R)-3-fluoro-2-phosphonate] derivatives of purines: a class of highly selective antiretroviral age...	1991	Proceedings of the ...	National Acad Sciences	
<input checked="" type="checkbox"/> h 97	2.77	23	E De Clercq, A Holy	Antiviral activity of aliphatic nucleoside analogs: structure-function relationship	1979	Journal of medicinal chemistry	ACS Publications	
<input checked="" type="checkbox"/> h 94	4.95	26	D Reymen, L Naese...	Antiviral activity of selected acyclic nucleoside analogues against human herpesvirus 6	1995	Antiviral research	Elsevier	
<input checked="" type="checkbox"/> h 93	2.38	25	A Holy	Aliphatic analogues of nucleosides, nucleotides, and oligonucleotides	1975	Collection of Czechoslovak ...	cccc.uochb.cas.cz	CITATION
<input checked="" type="checkbox"/> h 91	1.94	27	J Zemlicka, A Holy	PREPARATION OF N-DIMETHYLAMINOMETHYLENE DERIVATIVES-A NEW METHOD OF A SELECTIVE SUBSTITUTIO...	1967	COLLECTION OF ...	... NAM 2, PRAGUE 6 166 10...	CITATION
<input checked="" type="checkbox"/> h 87	2.72	29	A Holy, I Rosenberg	Preparation of 5'-O-phosphonate analogues of nucleoside-5'-phosphates, 5'-diphosphates and 5'-triphosphates	1982	Collection of Czechoslovak ...	cccc.uochb.cas.cz	
<input checked="" type="checkbox"/> h 84	4.62	28	J Balzarini, S Aquar...	Activity of the (<i>R</i>)-Enantiomers of 9-(2-Phosphonate)cytopropyl-Adenine and 9-(2-Phosphonate)cytop...	1996	Biochemical and ...	Elsevier	
<input checked="" type="checkbox"/> h 83	6.97	30	R Snoeck, A Holy, C...	Antiviral activities of acyclic nucleoside phosphonate derivatives in epithelial cells and organotypic cultures	2002	Antimicrobial agents ...	Am Soc Microbiol	
<input checked="" type="checkbox"/> h 81	7.36	36	D Hocková, A Holy, ...	5-Substituted-2, 4-diamino-6-[2-(phosphonate) ethoxy] pyrimidines Acyclic Nucleoside Phosphonate Analog...	2003	Journal of medicinal ...	ACS Publications	
<input checked="" type="checkbox"/> h 81	1.93	31	A Holy	Nucleic acid components and their analogues. CLIII. Preparation of 2'-deoxy-L-ribonucleosides of the pyrimidine se...	1972	Collection of Czechoslovak ...	cccc.uochb.cas.cz	CITATION
<input checked="" type="checkbox"/> h 77	7.00	32	KA Keith, MJM Htch...	Evaluation of nucleoside phosphonates and their analogs and prodrugs for inhibition of orthopoxvirus replication	2003	Antimicrobial agents ...	Am Soc Microbiol	
<input checked="" type="checkbox"/> h 75	3.26	33	E De Clercq, A Holy	Efficacy of (S)-1-(3-hydroxy-2-phosphonate) cytosine in various models of herpes simplex virus infec...	1991	Antimicrobial agents and ch...	Am Soc Microbiol	
<input checked="" type="checkbox"/> h 75	1.97	37	JA Holy, MV Klein, ...	Raman-Active Lattice Vibrations of the Commensurate Superlattice in 2H-Ta Se 2	1976	Physical Review Letters	APS	
<input checked="" type="checkbox"/> h 74	8.22	34	E De Clercq, G Andr...	Antiviral potential of a new generation of acyclic nucleoside phosphonates, the 6-[2-(phosphonate) alkoxy]...	2005	... and Nucleic Acids	Taylor & Francis	
<input checked="" type="checkbox"/> h 73	3.32	35	A Merta, I Votruba...	Phosphorylation of 9-(2-phosphonate) adenine and 9-(2, 3-dihydroxy-2-phosphonate)cytop...	1992	Biochemical ...	Elsevier	
<input checked="" type="checkbox"/> h 73	1.97	39	J Doskočil, A Holy	Specificity of purine nucleoside phosphorylase from Escherichia coli	1977	Collection of Czechoslovak ...	cccc.uochb.cas.cz	CITATION
<input checked="" type="checkbox"/> h 72	1.36	38	Z Arnold, A Holy	Synthetic reactions of dimethylformamide. XIII. β-Bromoacetaldehydes	1961	Collection of Czechoslovak ...	cccc.uochb.cas.cz	CITATION
<input checked="" type="checkbox"/> h 65	3.10	42	A Holy	Syntheses of enantiomeric N-(3-hydroxy-2-phosphonate) derivatives of purine and pyrimidine bases	1993	Collection of Czechoslovak c...	cccc.uochb.cas.cz	
<input checked="" type="checkbox"/> h 65	1.81	44	MV Klein, JA Holy, ...	Raman scattering induced by carbon vacancies in Ti C x	1978	Physical Review B	APS	
<input checked="" type="checkbox"/> h 64	3.05	41	J Balzarini, A Holy, ...	enantiomers of acyclic nucleoside phosphonates: potent and selective in vitro and in vivo antiretrovirus activities o...	1993	Antimicrob Agents ...		CITATION
<input checked="" type="checkbox"/> h 63	1.47	40	A Holy, M Souček	Benzoyl cyanide-a new benzoylating agent in nucleoside and nucleotide chemistry	1971	Tetrahedron letters	Pergamon	CITATION
<input checked="" type="checkbox"/> h 62	5.17	43	J Balzarini, C Panne...	Antiretrovirus activity of a novel class of acyclic pyrimidine nucleoside phosphonates	2002	Antimicrobial agents ...	Am Soc Microbiol	
<input checked="" type="checkbox"/> h 62	2.14	46	E De Clercq, A Holy	Alkyl esters of 3'-adenine-9-yl-2-hydroxypropanoic acid: a new class of broad-spectrum antiviral agents	1985	Journal of medicinal chemistry	ACS Publications	
<input checked="" type="checkbox"/> h 61	6.10	52	D Hocková, A Holy, ...	Synthesis and antiviral activity of 2, 4-diamino-5-cyano-6-[2-(phosphonate) ethoxy] pyrimidine and related ...	2004	Bioorganic & medicinal ...	Elsevier	
<input checked="" type="checkbox"/> h 61	2.77	45	EDA de Clercq, A H...	N-phosphonate derivatives of pyrimidine and purine bases and a therapeutic composition thereof from ...	1992	US Patent 5,142,051	Google Patents	
<input checked="" type="checkbox"/> h 61	1.79	47	J JONÁK, J SMRT...	Interaction of Escherichia coli EF-Tu·GTP and EF-Tu·GDP with Analogues of the 3' Terminus of Aminoacyl-tRNA	1980	European Journal of ...	Wiley Online Library	
<input checked="" type="checkbox"/> h 60	1.76	48	I Votruba, A Holy	Inhibition of 5'-adenosyl-L-homocysteine hydrolase by the aliphatic nucleoside analogue-9-(S)-(2, 3-dihydroxyprop...	1980	Collection of Czechoslovak ...	cccc.uochb.cas.cz	

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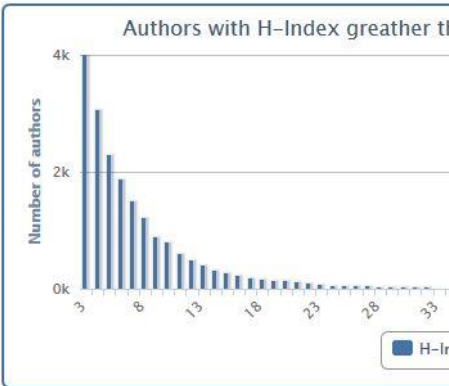
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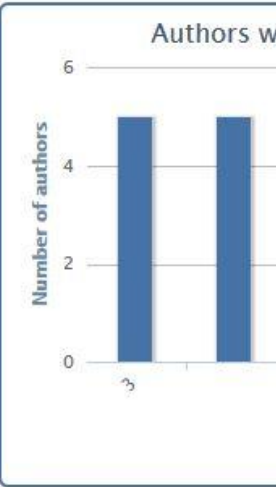
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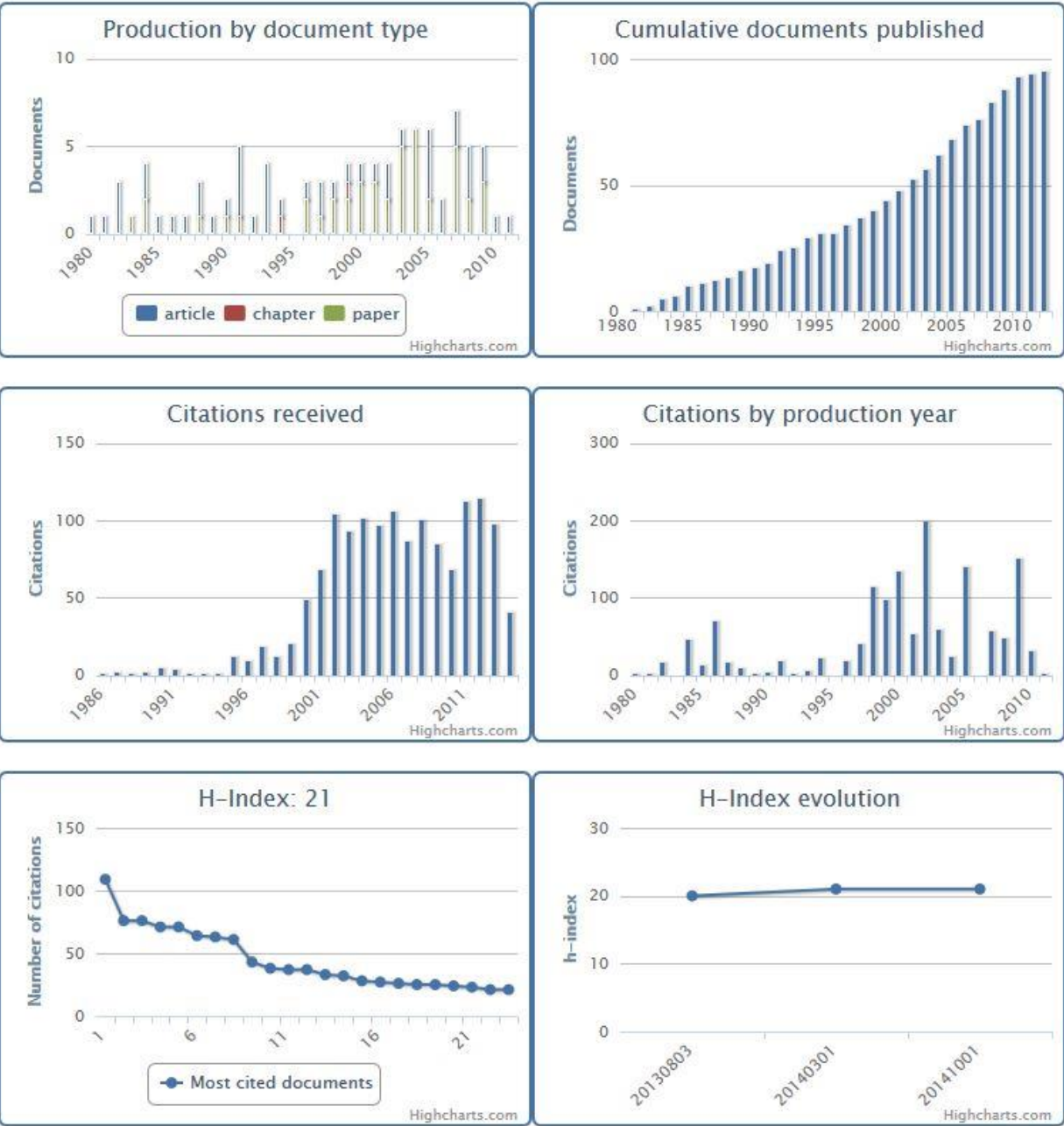
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









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Ranking of working papers series by impact factor

To be included in this ranking, series should have impact factor greater than 0, more than 5 citations, more than 20 documents published in the year of reference and a percentage of self citation of 50 or less. Source data used to compute the impact factor of RePEc series.

Rank	Series		2013	2012	2011	2010	2009
1	BIS Working Papers / Bank for International Settlements		3.61 	2.85	2.42	1.55	1.83
2	Scholarly Articles / Harvard University Department of Economics		3.06 	4.49	4.56	3.77	5.09
3	Working Paper Series / Federal Reserve Bank of San Francisco		2.38 	2	1.97	1.26	1.75
4	Munich Reprints in Economics / University of Munich, Department of Economics		2.22 	2.66	1.6	0.89	1.45
5	NBER Working Papers / National Bureau of Economic Research, Inc		1.85 	1.91	1.78	1.58	1.87
6	Working Papers / Chapman University, Economic Science Institute		1.76 	1.09	0.53	0.4	
7	Working Papers / CEPII research center		1.6 	1.81	1.24	1	0.96
8	CReAM Discussion Paper Series / Centre for Research and Analysis of Migration (CRaM), Department of Economics, University College London		1.6 	0.56	0.66	0.72	1.82
9	Staff Reports / Federal Reserve Bank of New York		1.52 	1.59	2.13	1.92	2.23
10	Working Paper Series / Peterson Institute for International Economics		1.45 	1.6	1.41	0.96	0.67
11	CEP Discussion Papers / Centre for Economic Performance, LSE		1.43 	1.57	1.55	1	1.84
12	CEPR Discussion Papers / C.E.P.R. Discussion Papers		1.39 	1.28	1.42	1.22	1.38
13	Staff Report / Federal Reserve Bank of Minneapolis		1.35 	2.43	3.15	2.38	1.51
14	SERC Discussion Papers / Spatial Economics Research Centre, LSE		1.33 	0.73	1.28	0.68	
15	Working Paper Series / European Central Bank		1.28 	1.54	1.78	1.43	2.01
16	Boston College Working Papers in Economics / Boston College Department of Economics		1.27 	0.94	0.71	0.58	0.96
17	Finance and Economics Discussion Series / Board of Governors of the Federal Reserve System (U.S.)		1.27 	1.05	1.09	0.96	1.05
18	Working Papers / Center for Economic Studies, U.S. Census Bureau		1.27 	0.62	1.38	0.8	1.51
19	IMF Working Papers / International Monetary Fund		1.25 	1.41	1.45	1	1.09
20	Peterson Institute Press: All Books / Peterson Institute for International Economics		1.22 	0.95	0.45	0.57	
21	Bank of England working papers / Bank of England		1.13 	1.75	1.67	0.74	0.88
22	IMK Working Paper / IMK at the Hans Boeckler Foundation, Macroeconomic Policy Institute		1.13 	0.21	0.43	0.3	0.35
23	Working Papers / Bank of Canada		1.13 	0.97	0.68	0.39	0.45
24	Questioni di Economia e Finanza (Occasional Papers) / Bank of Italy, Economic Research and International Relations Area		1.12 	0.55	0.96	0.44	0.09
25	Globalization and Monetary Policy Institute Working Paper / Federal Reserve Bank of Dallas		1.1 	1.6	1.29	0.71	0.86
26	Working Papers / Brown University, Department of Economics		1.09 	0.82	0.9	0.86	1.39
27	DNB Working Papers / Netherlands Central Bank, Research Department		1.07 	1.13	0.99	0.6	0.82
28	Discussion Papers / The Centre for Decision Research and Experimental Economics, School of Economics, University of Nottingham		1.07 	0.7	0.33	0.43	0.28
29	Working Papers / Swiss National Bank		1.07 	0.58	0.63	0.34	0.86
30	Working Papers / University of Toronto, Department of Economics		1.06 	1.02	0.63	0.47	0.88

## Ranking of journals by impact factor

To be included in this ranking, series should have impact factor greater than 0, more than 5 citations, more than 20 documents published in the year of reference and a percentage of self citation of 50 or less

Rank	Series	2013	2012	2011	2010	2009
1	Journal of Economic Literature / American Economic Association	12.22 	11.15	10.51	9.65	9.18
2	Journal of Political Economy / University of Chicago Press	7 	6.48	4.51	3.93	5.43
3	Journal of Economic Perspectives / American Economic Association	5.53 	4.15	3.73	3.01	4.62
4	Review of Economic Studies / Oxford University Press	4.99 	3.09	3.48	3.38	4.88
5	American Economic Journal: Macroeconomics / American Economic Association	4.94 	5.49	6.48	6.8	
6	Econometrica / Econometric Society	4.7 	4.17	4.43	3.57	4.63
7	Journal of Finance / American Finance Association	4.69 	3.97	3.18	2.46	2.97
8	American Economic Journal: Applied Economics / American Economic Association	4.32 	4.86	4.03	2.74	
9	Economic Policy / CEPR	4.31 	3.25	4.18	3.63	3.09
10	American Economic Journal: Economic Policy / American Economic Association	4.1 	3.45	2.23	2.4	
11	American Economic Review / American Economic Association	4.09 	3.39	3.24	3.07	3.82
12	Journal of Economic Growth / Springer	4.08 	4.79	3.25	3.29	5.21
13	Journal of International Economics / Elsevier	4.03 	3.52	2.65	2.48	3.51
14	Journal of Financial Stability / Elsevier	3.89 	2.31	1.35	1.06	0.86
15	Journal of Monetary Economics / Elsevier	3.81 	3.05	2.59	2.45	2.76
16	Annual Review of Economics / Annual Reviews	3.5 	2.16	3.26	2.33	
17	Experimental Economics / Springer	3.49 	3.12	2.07	2.23	4.11
18	Economic Journal / Royal Economic Society	3.48 	3.18	2.57	1.87	2.55
19	Review of Economic Dynamics / Elsevier for the Society for Economic Dynamics	3.46 	2.69	2.35	1.81	2.04
20	Journal of Labor Economics / University of Chicago Press	3.4 	2.65	2.84	2.9	3.11
21	Journal of Financial Economics / Elsevier	3.39 	2.68	2.64	2.37	2.9
22	Journal of Development Economics / Elsevier	3.37 	3.84	3.61	2.82	2.61
23	The Review of Economics and Statistics / MIT Press	3.31 	3.02	3.23	3.35	3.67
24	Brookings Papers on Economic Activity / Economic Studies Program, The Brookings Institution	3.04 	3.45	3.04	2.96	3.09
25	American Economic Journal: Microeconomics / American Economic Association	2.66 	1.9	1.05	1.17	
26	Journal of Human Resources / University of Wisconsin Press	2.63 	2.09	3.01	2.07	2.38
27	Journal of Environmental Economics and Management / Elsevier	2.5 	2.42	1.95	2.58	2.67
28	Review of Financial Studies / Society for Financial Studies	2.45 	2.03	2.65	2.55	2.64
29	European Economic Review / Elsevier	2.43 	2.59	2.19 <sup>26</sup>	1.82	1.78
30	Journal of Urban Economics / Elsevier	2.43 	2.12	2.02	2.08	1.96

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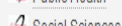
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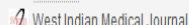
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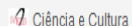


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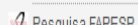
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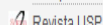
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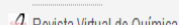
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ADMINISTRAÇÃO CONTÁBIL E FINANCEIRA

## Financial strategies for minimizing corporate income taxes under Brazil's new global tax system

Stephen T. Limberg<sup>I</sup>, John R. Robison<sup>II</sup>, Michael S. Schadewald<sup>III</sup>
<sup>I</sup>Visiting; Professor, Fundação Getúlio Vargas. Professor, The University of Texas, Austin.

E-mail: [limberg@mail.utexas.edu](mailto:limberg@mail.utexas.edu)
<sup>II</sup>Professor, The University of Texas, Austin

<sup>III</sup>Associate Professor, University of Wisconsin, Milwaukee

### ABSTRACT

In 1996, Brazil adopted a worldwide income tax system for corporations. This system represents a fundamental change in how the Brazilian government treats multinational transactions and the tax minimizing strategies relevant to businesses. In this article, we describe the conceptual basis for worldwide tax systems and the problem of double taxation that they create. Responses to double taxation by both the governments and the private sector are considered. Namely, the imperfect mechanisms developed by Brazil and other countries for mitigating double taxation are analyzed. We ultimately focus on the strategies that companies utilize in order not only to avoid double taxation, but also to take advantage of tax havens.

**Key words:** financial strategies, foreign tax credit, international tax, tax minimization, worldwide income taxes system.

### RESUMO

Em 1996, o Brasil adotou um sistema internacional de impostos de renda para empresas. Este sistema representa uma mudança fundamental em como o governo brasileiro trata as transações internacionais e as estratégias para minimizar os impostos para as empresas. Neste artigo, descrevemos as bases conceituais para um sistema internacional de impostos e o problema causado pela criação de uma dupla taxação. As reações do governo e da iniciativa privada à dupla taxação são consideradas. Também são analisados os mecanismos imperfeitos desenvolvidos no Brasil e em outros países para atenuação da taxação dupla. Finalmente, abordamos as estratégias utilizadas pelas empresas para não apenas evitar a dupla taxação como também ter as vantagens dos paraísos fiscais.

**Palavras-chave:** estratégias financeiras, taxas de crédito estrangeiras, taxas internacionais, redução de impostos, sistema internacional de impostos de renda.

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**Abstract**  
According to its proponents, open source style software development has the capacity to compete successfully, and perhaps in many cases displace, traditional commercial development methods. In order to begin investigating such claims, we examine the development process of a major open source application, the Apache web server. By using email archives of source code change history and problem reports we quantify aspects of developer participation, core team size, code ownership, productivity, defect density, and problem resolution interval for this OSS project. This analysis reveals a unique process, which performs well on important measures. We conclude that hybrid forms of development that borrow the most effective techniques from both the OSS and commercial worlds may lead to high performance software processes.

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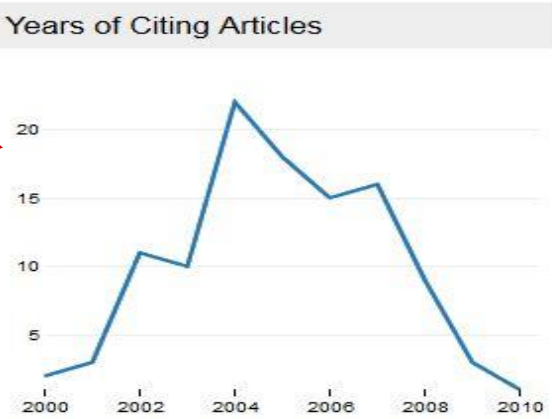
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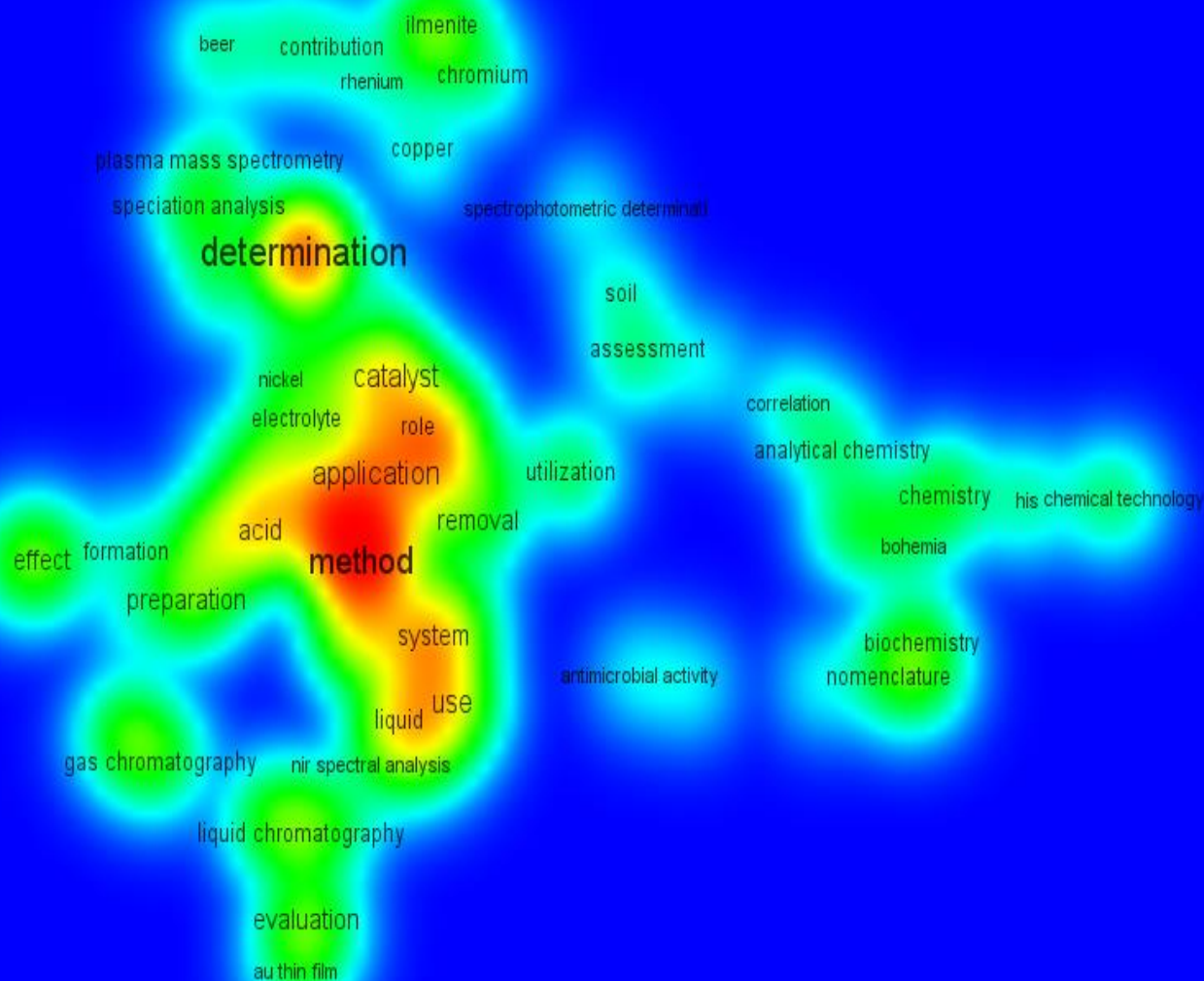
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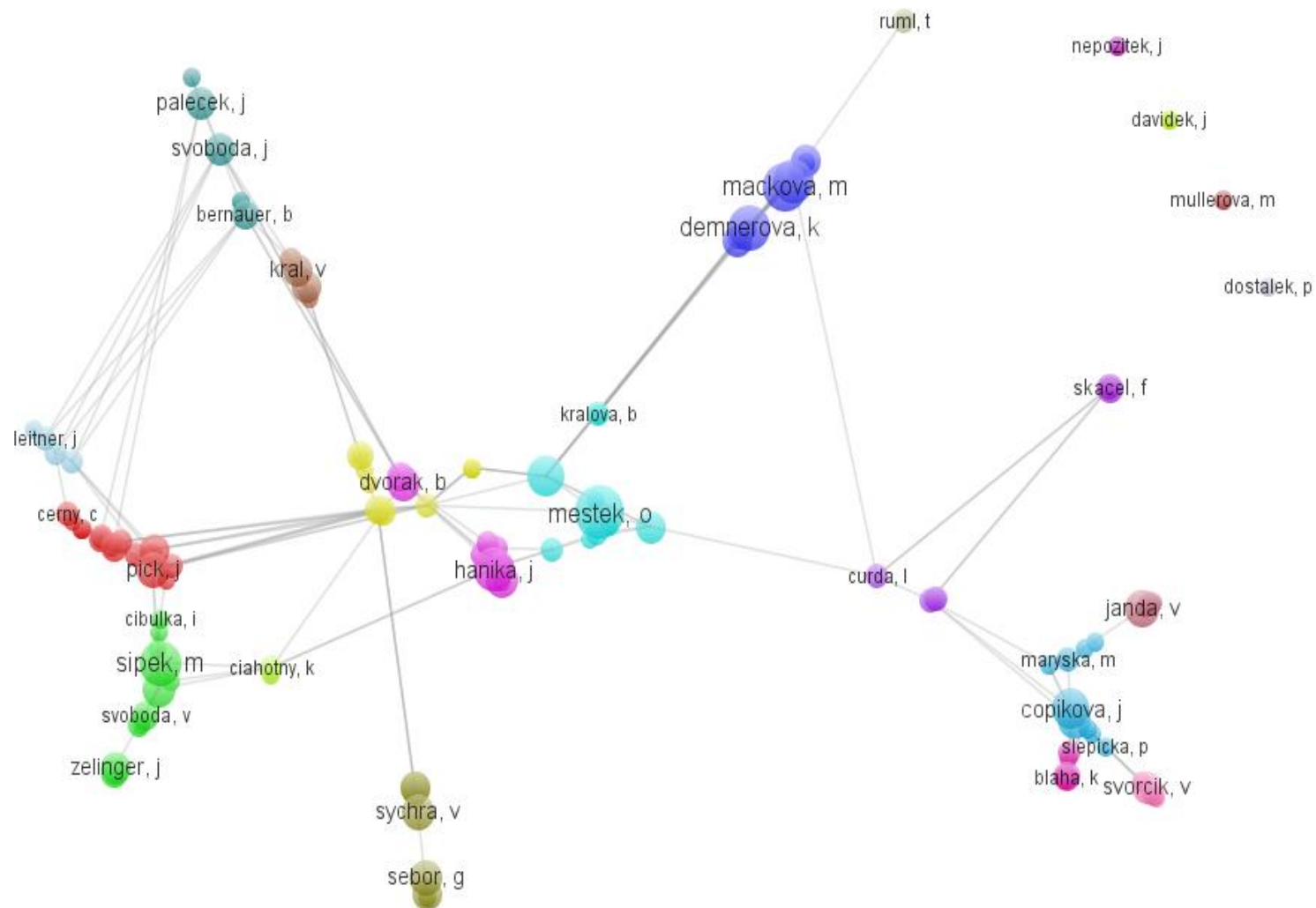
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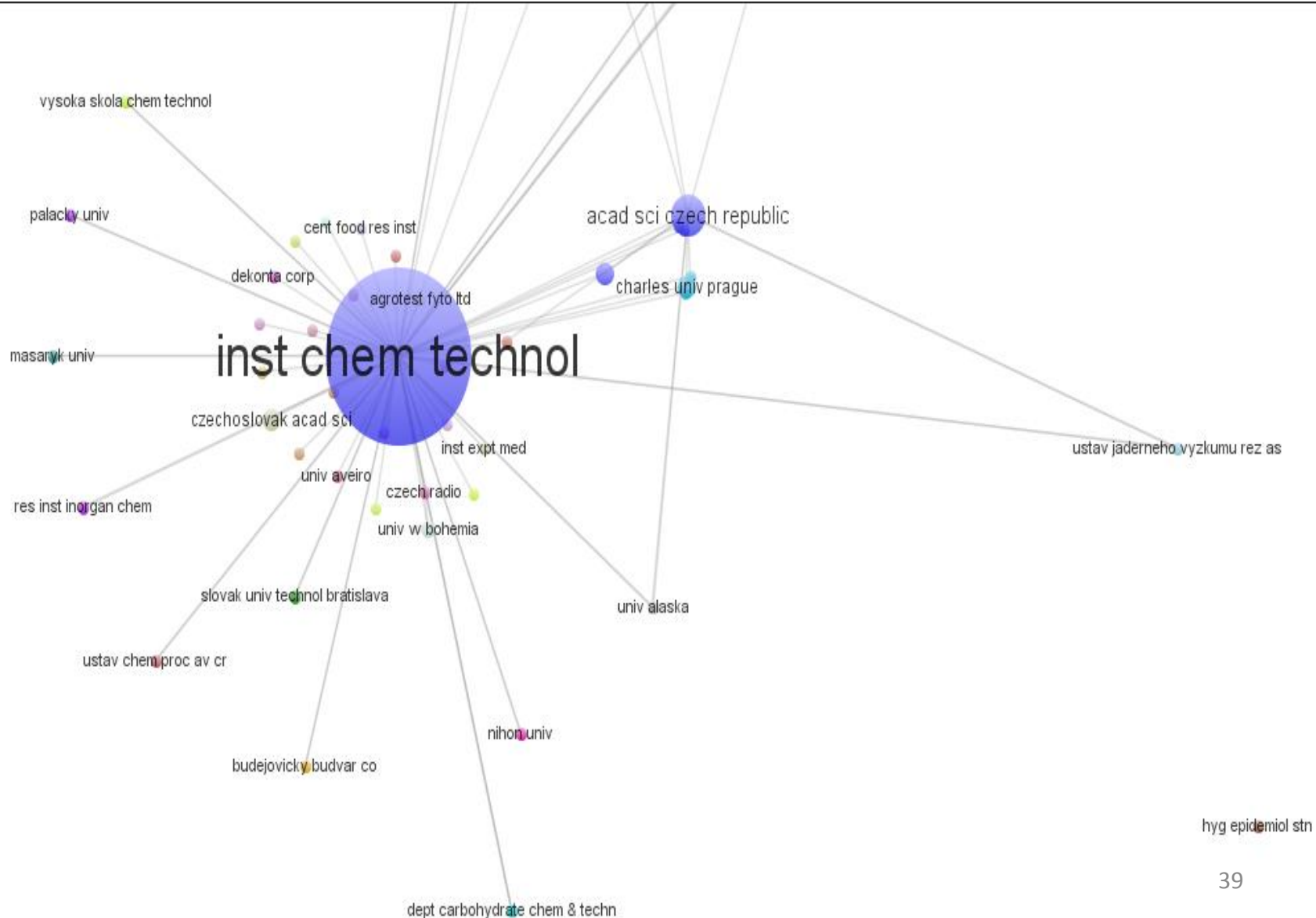
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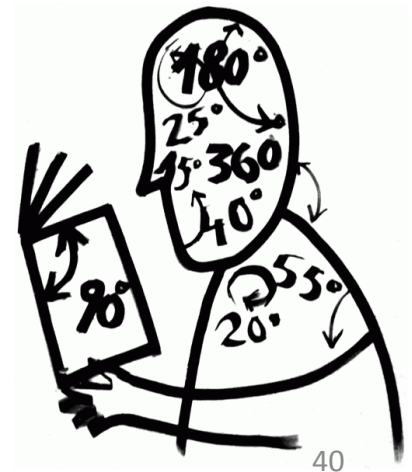
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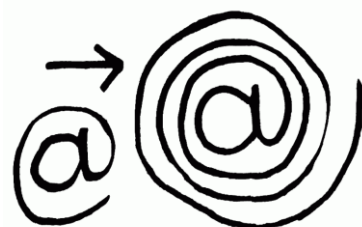
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